

AMENDMENTS TO THE CLAIMS

Claim 1 (Canceled):

Claim 2 (Canceled):

Claim 3 (Canceled):

Claim 4 (Canceled):

Claim 5 (Currently Amended): A member-joining device to connect a first member having a pair of opposing walls and a second member having a pair of opposing walls comprising The member-joining device according to claim 2,

a first bridge member for spanning between the opposing walls of said first member at a predetermined position of said first member;

a second bridge member for spanning between the opposing walls of said second member at a predetermined position of said second member;

a drawing means for drawing the first bridge member and the second bridge member in the direction where both are close to each other;

wherein said first member and said second member are pressed and connected by a drawing force based on said drawing means, said drawing means draws and tightens said first bridge member and said second bridge member by utilizing screw forwarding mechanisms;

wherein one the second member adjacent to one end of the first member and another second member adjacent to the other end of the first member are is connected through the first member; each second member opposes each other and the first member has including a pair of slightly beveled contact faces in a downwardly drawing direction;

an end face of each of said second member including at least one end face members is pressed to the contact face faces of the first member to join the first and the second members.

Claim 6 (Currently Amended): The member-joining device according to claim 5,

wherein said second member is a pipe member; said first member has comprising:

a pipe-like tubular outer member having a cross sectional shape coinciding with said second member; and

an inner member projecting outward from each end contact face of the outer member;
the each end face is said contact face; and

the projection portion of said inner member is inserted into the end portion of the second member to connect the first member and the second member together.

Claim 7 (Previously presented): The member-joining device according to claim 6, wherein a line connecting between said first bridge member and said second bridge member is not in right angles to said contact face from a side view; a dividing force is generated by the drawing force to slide a contact face and an end face; an outer peripheral face of said inner member and an inner peripheral face of said second member contact closely with the sliding force; and a position of said first member and said second member is determined.

Claim 8 (Currently amended): The member-joining device according to claim 7, wherein the first member and the second member engage in a direction which substantially coincides with a horizontal direction; and

a the line from the first bridge member provided towards one end of the first member to the second bridge member provided on the second member adjacent to one end of the first member and another line from another first bridge member provided towards the other end of the first member to another second bridge member provided on another second member adjacent to the opposite end of the first member have a shape of the sides of a trapezoid from a side view.

Claim 9 (Previously presented): The member-joining device according to claim 8, wherein

the lines having a shape of the sides of a trapezoid from the side view are in a lower half region of the vertical direction of the first member and the second member.

Claim 10 (Withdrawn): A member-joining device to connect a first member and a second member comprising:

 a position determining means for projecting in a predetermined position of said first member;

 a first fixing portion having a screw hole provided on a projection portion of said position determining means;

 a second fixing portion having a screw penetrating hole provided on the predetermined position of said second member; and

 a drawing means for drawing the first fixing portion and the second fixing portion;

 wherein the drawing means sets a line connecting said first fixing portion and said second fixing portion so that a divisional force to slide said first member and said second member along their contact face is generated by a drawing force;

 said position determining means restricts a sliding movement to effect the position determining means.

Claim 11 (Withdrawn): The member-joining device according to claim 10, wherein at least one of said first member and said second member has a displacement prevention means corresponding to a force at substantially right angles to both closing force and sliding force, which restricts the displacement in the direction at substantially right angles to both said closing force and said sliding force to determine the position of said first member and said second member.

Claim 12 (Withdrawn): The member-joining device according to claim 11, wherein said second member is a pipe member and said first member comprises an inner member projecting outward, and said inner member is said position determining means and said displacement prevention means.

Claim 13 (Withdrawn): The member-joining device according to claim 12, wherein said inner member comprises opposing walls, said first fixing portion is the first bridge member which spans or intervenes between said opposing walls, said pipe member comprises a pair of opposing walls,

and said second fixing portion is the second bridge member which spans or intervenes between said opposing walls.

Claim 14 (Withdrawn): The member-joining device according to claim 10, wherein said first member and said second member are a square pipe.

Claim 15 (Withdrawn): The member-joining device according to claim 10, wherein the adjacent second members are joined to each other through the first member, said first member comprises a slightly beveled pair of contact faces which are reversely and downwardly opposing , and an end face of said second member is pressed to the contact face to connect said second member.

Claim 16 (Withdrawn): The member-joining device according to claim 10, wherein said first fixing portion is provided externally on said first member.

Claim 17 (Withdrawn): The member-joining device according to claim 16, wherein said first member comprises a rail groove, and said first fixing portion is provided by engaging with said rail groove.

Claim 18 (Withdrawn): The member-joining device according to claim 16, wherein said second fixing portion is provided on the slope caved from the predetermined position of the second member.

Claim 19 (Withdrawn): The member-joining device according to claim 16, wherein said second fixing portion is formed by inserting a fixing member having a screw penetrating a hole at an opening portion installed in the predetermined position of the second member.